

What is claimed is:

1. A medical guide wire comprising:
  - an elongated and flexible core member;
  - a front catheter engagement portion provided around said core member and formed into a bulged shape or a truncated cone shape, a diameter of which progressively decreases as approaching a rear end of said front catheter engagement portion;
  - said front catheter engagement portion being capped with a balloon catheter to provisionally connect said balloon catheter to said front catheter engagement portion so that said balloon catheter is inserted into a blood vessel concurrently at the time when introducing a medical guide wire into said blood vessel.
2. The medical guide wire according to claim 1, wherein a leading bulge portion is formed by an ellipsoidal helical spring or a columnar member, and a rear half of said leading bulge portion forming said front catheter engagement portion so as to introduce said leading bulge portion into a stricture blood vessel area.
3. The medical guide wire according to claim 1, wherein said front catheter engagement portion is formed by depositing a solder or an adhesive on said core member.
4. The medical guide wire according to claim 1, wherein a provisionally connecting member is provided at a front open end of said balloon catheter to provisionally

connect said balloon catheter to said front catheter engagement portion.

5. The medical guide wire according to claim 4, wherein said provisionally connecting member is a carve or a rolled end provided at said front open end of said balloon catheter.

6. The medical guide wire according to claim 2, wherein said provisionally connecting member is a groove which fit into said leading bulge portion formed by an ellipsoidal helical spring.

7. The medical guide wire according to claim 1, wherein said balloon catheter and said front catheter engagement portion are formed by a common synthetic resin to produce a coefficient of static friction therebetween, a magnitude of which is determined enough to provisionally connect said balloon catheter to said front catheter engagement portion.

8. The medical guide wire according to claim 7, wherein said balloon catheter and said front catheter engagement portion are commonly formed by a synthetic resin selected from the group consisting of polyamide, polyvinyl chloride, polytetrafluoroethylene and polyethylene.